

## MACHINE CHECKLIST

THIS BLOCK FOR MSHA USE ONLY

M A # 47

REV. LEVEL

INSPECTORS NAME AND INITIALS

DATE

MAKE AND MODEL NO.

MACHINE TYPE

MACHINE SERIAL NUMBER

MACHINE APPROVAL NUMBER

"If an MSHA Part 36 approval plate has been affixed to this machine, it must meet the requirements of Part 36 Title 30 Code of Federal Regulations. It is the responsibility of the user to ensure that this machine is maintained in permissible condition in accordance with this checklist.

"ALL INSPECTIONS AND TEST SHALL BE PERFORMED IN FRESH AIR."

## PERMISSIBILITY

1. For a complete permissibility evaluation, this checklist must be used in conjunction with a power system checklist DM-44A and electrical system checklist DM- 109..
2. The design of the exhaust conditioner limits permissible operation to grades not exceeding 20%.
3. Due, to braking capability limitation, this machine shall not be operated on grades greater than 30%.

NOTE: When operated in areas which do not require permissible machines, this machine can be operated on grades greater than the 20% grade limitation due to the design of the exhaust conditioner, but in no case can the machine be operated on grades greater than 30% due to braking capability limitations.

APPLICABLE APPROVAL  
31-127-0

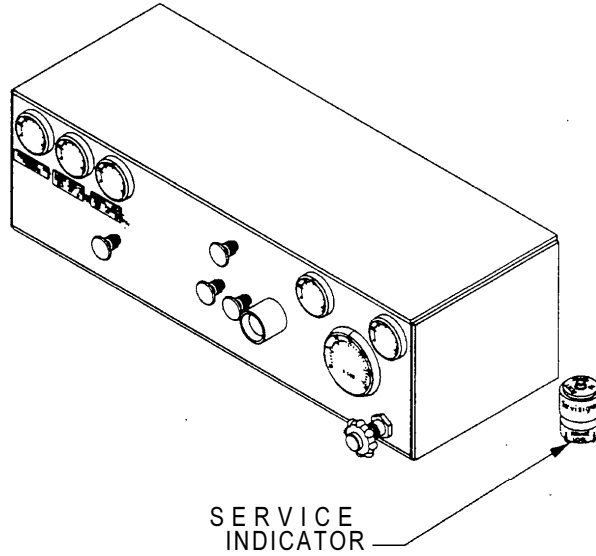
SHEET # DM- 108  
LAST REV. 11-25-97  
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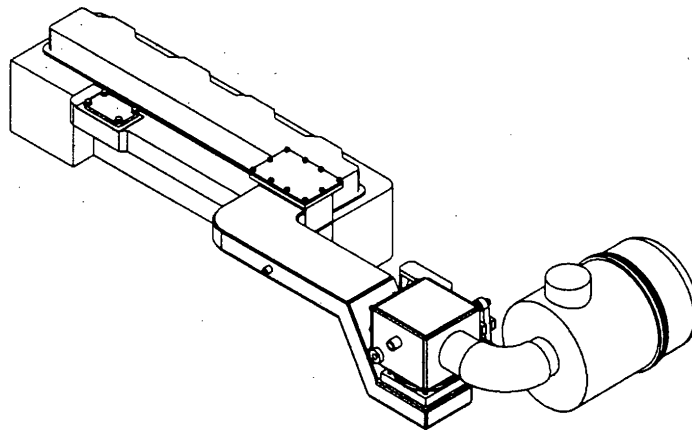
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The following test and inspection procedures shall be conducted on the surface or in mine ventilation intake air only.

## INTAKE SYSTEM (Engine Combustion Air)



- WEEKLY 1. ( ) Restriction on air cleaner is not showing RED.
- WEEKLY 2. ( ) Intake piping from air cleaner to air shut-off valve has no holes and is securely fastened.



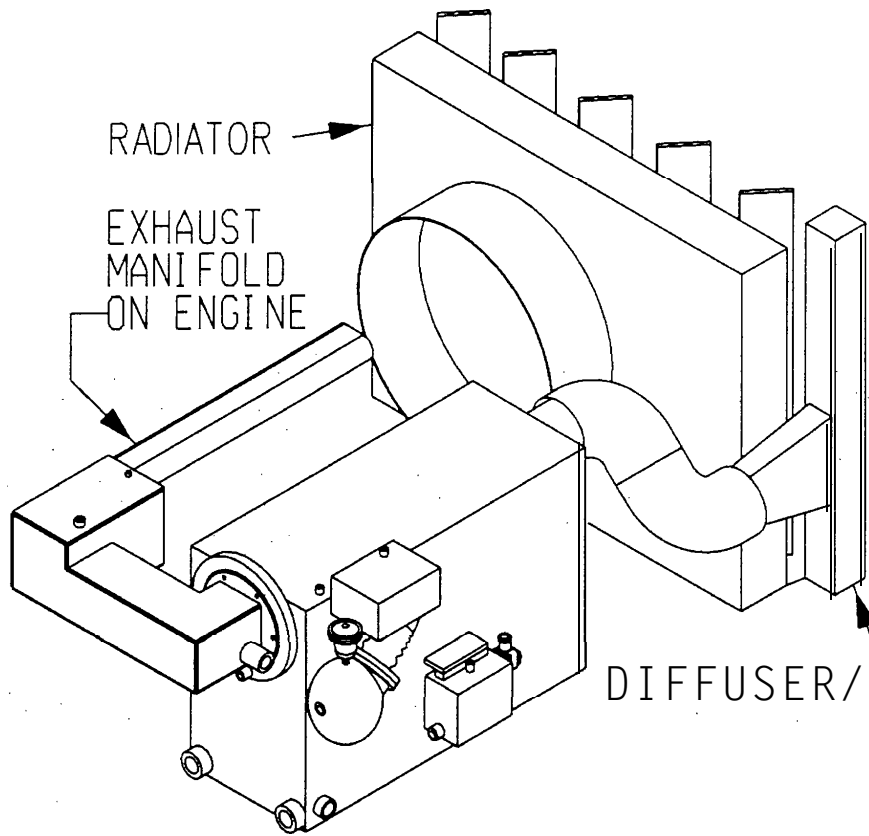
(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75.1914

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**EXHAUST SYSTEM**

- WEEKLY 1. ( ) Check that the exhaust is discharged in front of the engine cooling fan on the side opposite the tram area.



- WEEKLY 2. ( ) Check that the scrubber tank is in, good condition with no open holes due to corrosion and all plugs are in place.
- WEEKLY 3. ( ) Check that exhaust scrubber outlet piping is in place and properly secured to the exhaust diffuser.

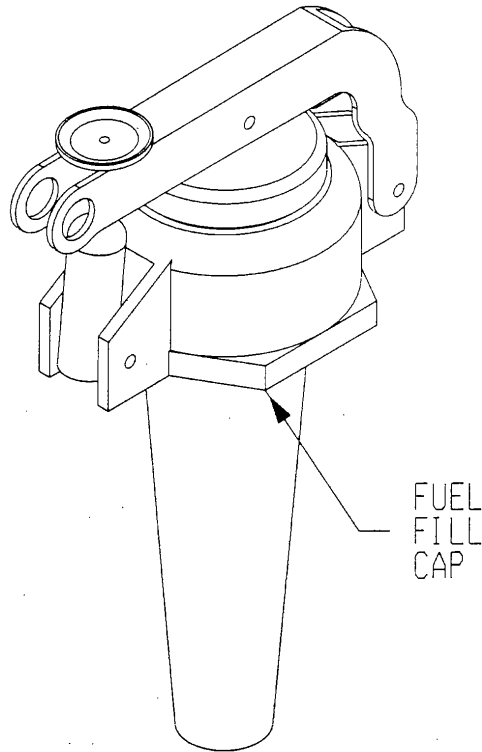
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**FUEL SYSTEM**

- [WEEKLY] 1. ( ) There are no fuel leaks.
- [WEEKLY] 2. ( ) The fuel filler cap is vented and the vent is not plugged.
- [WEEKLY] 3. ( ) The fuel fill system is self-closing and is attached to the tank in a manner which will prevent loss during refueling.

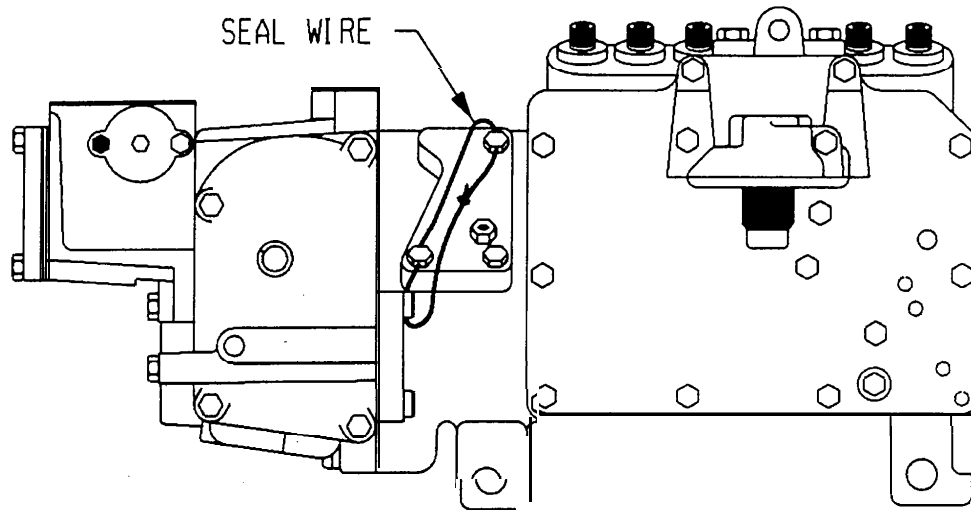


- [WEEKLY] 4. ( ) Auxiliary fuel tank capacity has not been added to the vehicle.
- [WEEKLY] 5. ( ) Fuel filters are properly installed and are not damaged.
- [WEEKLY] 6. ( ) The fuel injection rate adjustment mechanism and the engine governor setting are locked and sealed. See Figure at top of next page.

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- [WEEKLY] 7. ( ) The fuel shut-off valve in the fuel supply line is operable.
- [WEEKLY] 8. ( ) The drain plug in the fuel tank is locked in position. (Pipe plugs are considered "locked in position" when tight.)
- [WEEKLY] 9. ( ) Fuel lines are not routed near or connected to hot exhaust components and are protected from external damage.
- [WEEKLY] 10. ( ) Fuel lines are adequately secured.

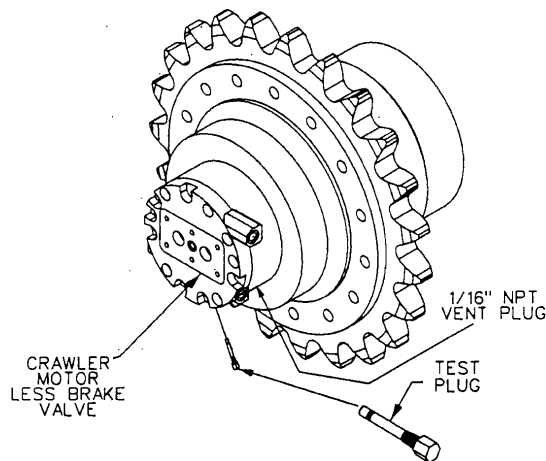
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**WARNING:** Brake tests are to be conducted on a relatively level surface, away from traffic areas where other machines or persons may be moving about. Consider the possible consequences of testing a machine with assumed braking inadequacies, and select an area where the test machine would not cause an accident due to these inadequacies.

1. Lower stab jacks and stabilizers to raise crawlers off of the floor.
2. De-energize machine, and actuate tram levers both directions to remove any residual pressure in the lines. NOTE: (IF APPLICABLE MAKE SURE INTENSIFIED AND/OR LOW SPEED CIRCUITS ARE TURNED OFF!)
3. Remove 1/16" NPT pipe plug from tram motor and replace with test plug. and remove vent plug. as pictured in drawing.
4. Install preset relief valve, in place of shuttle valve/orifice circuit. in same motor circuit as test plug.
5. Start machine, depress brake test valve, operate tram lever in direction of relief valve, if crawler does not move brake is in working order. If crawler does move rebuild or replace brake.
6. 'De-energize machine, actuate tram levers both directions to remove any residual pressure in lines.
7. Remove test plug and relief valve, replace all appropriate plugs and valves.
8. Repeat steps 3 thru 7 for other crawler.



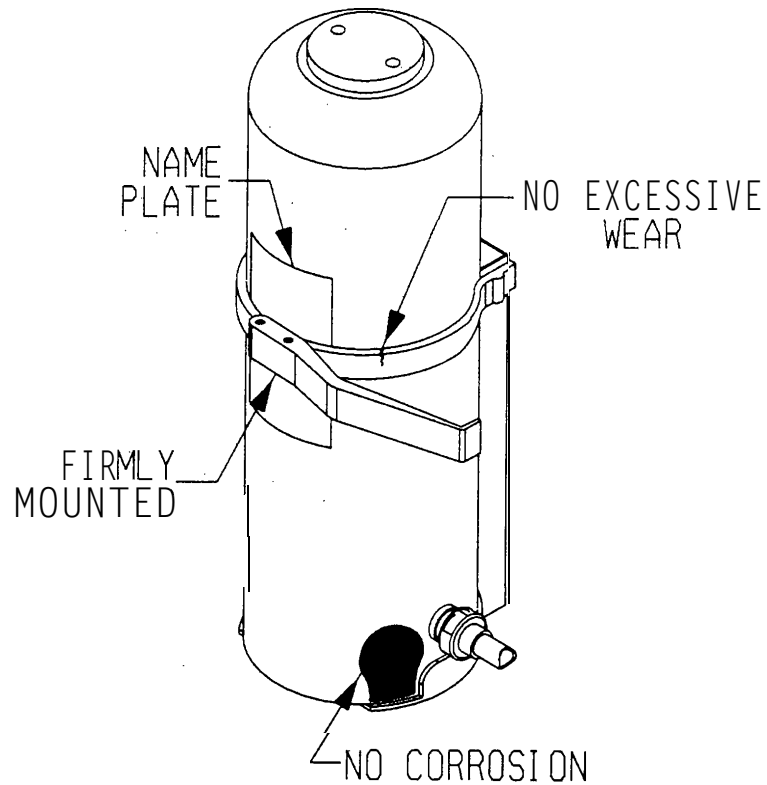
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D.   MISCELLANEOUS:

- [WEEKLY] 1.   (   )   The machine is equipped with at least one 5 lb. dry chemical fire extinguisher. All fire extinguishers are fully charged.
2.   (   )   Fire suppression system is charged and in good condition. The fire suppression system is operable as determined by the following checks:
- a.   (   )   Note general appearance of system components for mechanical damage or corrosion.
- b .   (   )   Check nameplate(s) for readability.

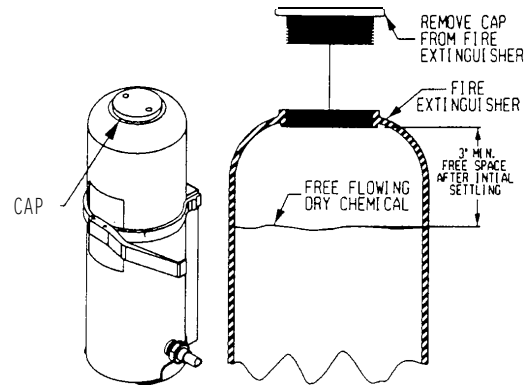


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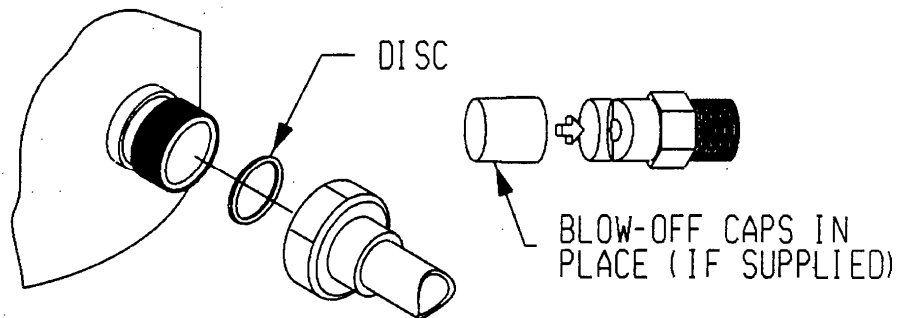
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- c. ( ) Remove fill cap.



- d. ( ) Make certain tank is filled with free-flowing dry chemical to a level of not more than 3 inches from the bottom of the fill opening. If dry chemical level is more than 3 inches, replace cap and heft bottle. (Note: heft means to shake the bottle up and down slightly, this according to the manufacture, will loosen settled dry chemical and make it free flowing.) Remove fill cap and measure level again.
- e. ( ) Secure fill cap, hand tighten.



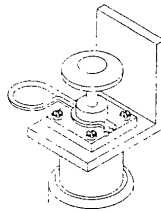
- f. ( ) Remove expellant gas cartridge and examine disc-seal should be unruptured.
- g. ( ) Return cartridge to pneumatic actuator/cartridge receiver, hand tighten and secure in bracket.
- h. ( ) Check hose, fittings and nozzles for mechanical damage and cuts.
- i. ( ) Check nozzle openings - slots on nozzle should be closed (capped) with silicone grease or cover with plastic blow-off caps.

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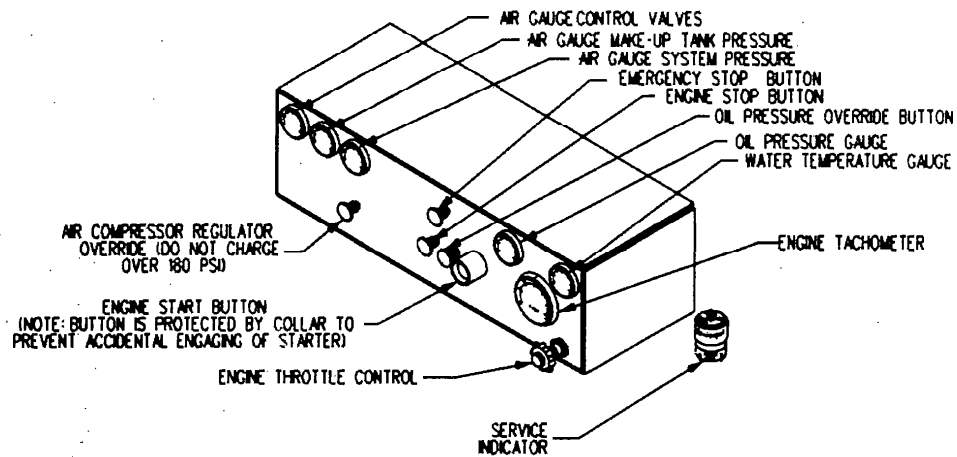
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- j. ( ) Remove cartridge from manual actuator(s), and examine disc-seal should be unruptured.
- k. ( ) Return cartridge to manual actuator(s) assembly, hand tighten.
- l. ( ) Replace any broken or missing lead and wire seals.



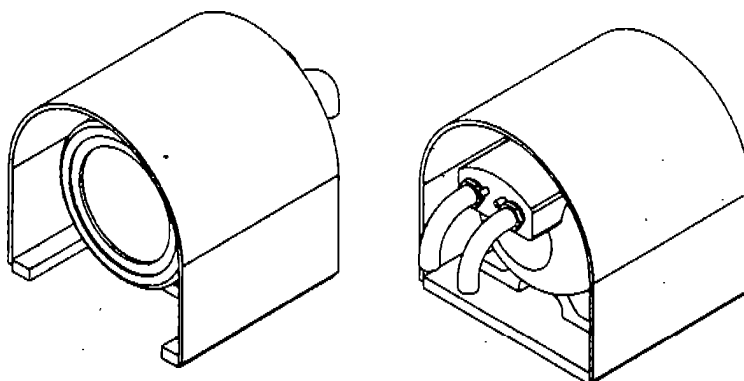
- [WEEKLY] 3. ( ) The main air pressure gauge is operable.
- [WEEKLY] 4. ( ) The machine has an MSHA Part 36 approval plate attached to it in the operator's compartment.

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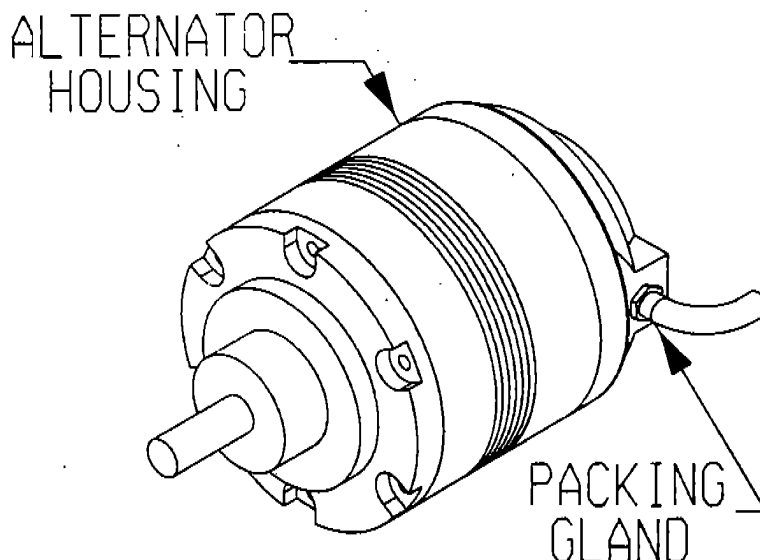
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- [WEEKLY] 5. ( ) The two tram levers and two position control levers return to neutral when released.
- [WEEKLY] 6. ( ) The warning device (gong) is operable.
- [WEEKLY] 7. ( ) Canopy control levers return to neutral when released.
- [WEEKLY] 8. ( ) The emergency remote engine stops, located at the driller's stations and at the position control station, will shut the engine down.
- [WEEKLY] 9. ( ) The machine has a completed MSHA part 33 dust approval plate (\* 12), specifying the dust approval number, attached.
- ~~[WEEKLY]~~ 10. ( ) Front and rear running lights are operable.



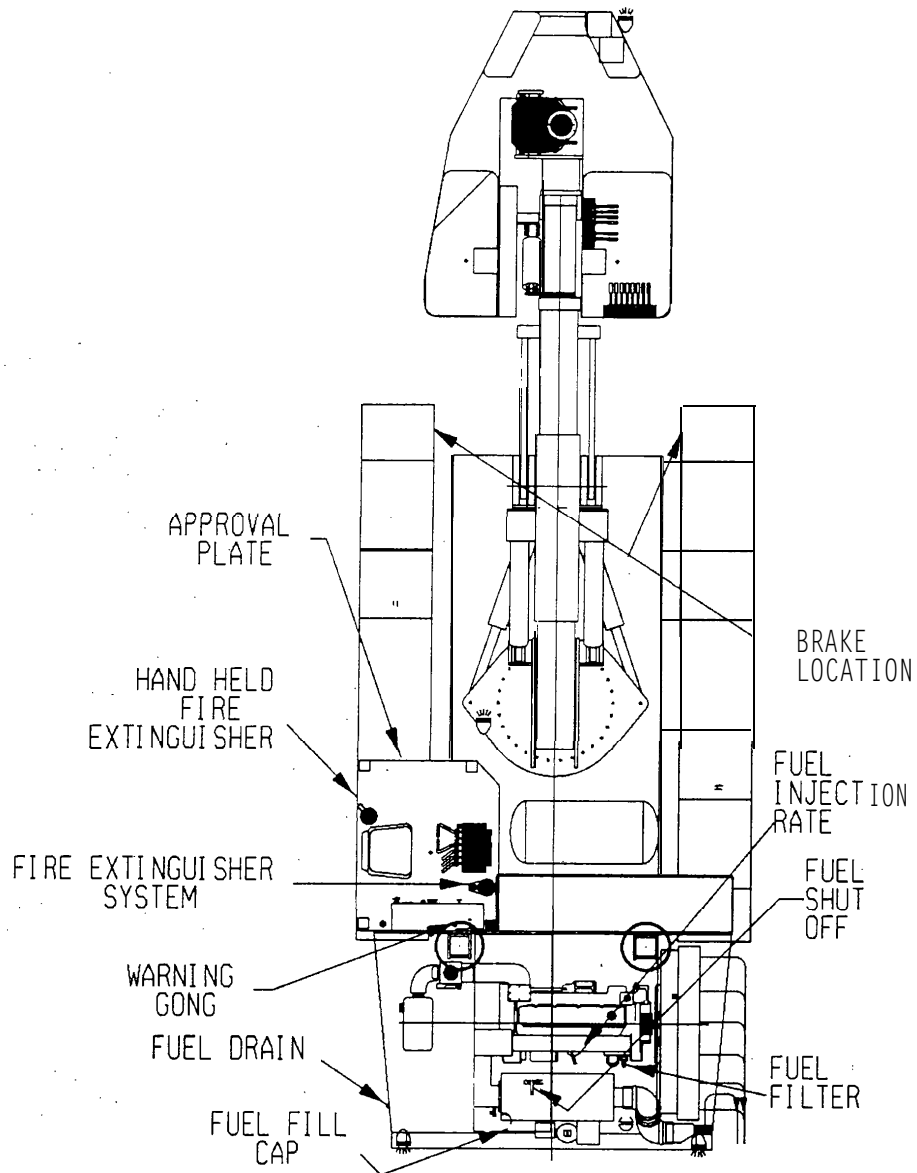
- [WEEKLY] 11. ( ) Electrical enclosures are properly sealed, and wiring hoses are in good condition.



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